

Claims

- [1] A hydraulic control valve for drip hoses, comprising a hose connector clamped at opposite ends thereof to an end of a branch hose and an end of a drip hose, respectively, and having a water supply path in the hose connector, wherein the water supply path comprises:
- a larger-diameter path having a stepped seat, the stepped seat comprising:
 - an uneven seat having a plurality of projections and depressions that are alternately arranged on an upper surface of the uneven seat; and
 - a smaller-diameter path having at a predetermined position thereof an inward projecting step, and
 - the hydraulic control valve further comprises:
 - a U-shaped flexible cup opened at a first end thereof, and placed at a second end thereof to be near to the inward projecting step, the U-shaped flexible cup comprising:
 - a flange outwardly protruded from an edge of the U-shaped flexible cup, and stopped by the uneven seat so that the U-shaped flexible cup is fitted into the smaller-diameter path while an outer surface of the U-shaped flexible cup is spaced apart from the smaller-diameter path by a predetermined gap; and
 - a support ring fitted into an end of the larger-diameter path to prevent the U-shaped flexible cup from being removed.
- [2] The hydraulic control valve according to claim 1, wherein
- the hose connector further comprises:
 - a plurality of grooves longitudinally provided on an inner circumference of the smaller-diameter path to be connected to the depressions, each of the grooves being longer than the U-shaped flexible cup, and
 - the hydraulic control valve further comprises:
 - a holder fitted into the end of the larger-diameter path, and passing through an opening of the U-shaped flexible cup to be in close contact with an inner surface of the flexible cup, with another water supply path being provided along a central axis of the holder.